

ABSTRACT OF THE DISCLOSURE

A laser beam recording system for exposing a photoresist master disc having a photoresist layer formed over a substrate for making a hybrid optical recording disc having a read only (ROM) portion and a writable portion, including

5 a first optical modulator for modulating an intensity of a first laser beam having a wavelength selected to provide activating radiation to expose a pattern in the photoresist layer formed over the substrate of the master disc between a lower intensity for exposing a groove in the photoresist layer and a higher intensity for exposing the groove and a pattern of depressions in the groove in the photoresist

10 layer; and a second optical modulator for frequency-modulating an intensity-modulated second laser beam with a wobble-frequency to cause the exposed groove to be a continuously frequency-modulated groove. The recording system also includes a laser beam modulation control system for controlling the operation of the first and second optical modulators to form a continuously frequency-

15 modulated exposed groove with exposed depressions in the ROM portion of the exposed groove. The first and the second laser beams can be provided by one laser as a single laser beam, by one laser as two split laser beams, and by a first and a second laser.